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de fault:	Choice (nº); we do	१ वर्ग ६ ३ - जुले 📆
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<u> </u>		
क दरावेड्ड इंग्लिड इंग्लिड के कर्		
+ Function: Self conta		
perform well defened s	pecific task	3444
Avoid repebbleon of c	ode signis et bustines s	Italiane
+ functions can be stone	d in library.	
<u> </u>		A Company
FUNCTIO		A Paranta
0 011 0	11. 1.1.	: ÷: 1 :: al
Bus lt-in	User defined	
function	function	C. J. Sharks
<b>n</b> .	1. Function declaration	n or prototype
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Predefined and are  present in [ Library  Ex; Squti(), printf(),  - scanf(), etc.  - unclude (stdioch)  - void drawline (void)  - for (i=1; i <=80;i++	1. Function declaration  2. Function de finitive  3. Function declar  Function call  Function call	ation
Predefined and are   present in [ ] ibrary   Ex; Squt(), printf(),   scanf(), etc.   the include (stdioch)   void drawline (void)   drawline ();   void drawline (void)   standard ();   void drawline (void)   standard ();	1. Function declaration  2. Function de finitive  3. Function declar  Function call  Function call	ation

```
based on return type and argument; we categorise function
 in 4 categories:
1. Function with no arguments and no retwen value
2. Function with no arguments and a return value
   Function with auguments and no return value
   Function with auguments and a return value.
           (stdio.h)
 ionclude
          sum (int, int);
  main ()
     int a,b,s;
     printf ( es Enter the value for a and b: >>);
     Scanfice % d % d", & a, & b);
     S = Sum(a,b)
     printf (ce Sum of % d and % d is \n", a,b);
          Sum (Pot x, Poty)
         int s;
        S = 2+4;
       neturn 5;
                 sum of digits of
           fond
H i'ndude (st drooh)
        sum (int, int);
  main ()
     int num;
     printf (" Enter the nos ");
      Scanf ( re % d", & num )3
      frint f (" sum of degits of % dis % d", num, sum (num));
```

int sum (int)	17 18 18 시 - 12 1일 1일 시간
Intisum = 0, nem:	I. Franction will no very som
	2. Franction with our respon
	3. Filosoft on secold somewhile
	to be well in the angular
n = n40 3	
neturn (sum);	total total ments to the
}	in the set
	·
→ Recursion	7 7 1 4 7
The function that calls itsel	If (ensue de lunction body)
The function that calls itsel again and again is known as re	cursive function
()	
main ()	Fa - (1)
E The Mark Mark Mark	rec ()
nec ();	if () /* Terminating
}	condition*/
*	0000
·	rec();
	•
$\eta_0^0 = \begin{cases} 1 \end{cases}$	2 1 1 1 1 1 1 1 E
	n = 0
1(-)= - 4 (1)	
f(n) = n * f(n-1)	
f(n-1) = (n-1) * f(n-2)	Contract to the second
# include (stdiooh)	
maln ()	The state of the s
main ()	
	Control of the state of the state of the state of
int num;	tens to end the state of
frent f (ce Enter a no:	");

```
Scanf (cc % d", &num);
         prient f (ecfadorial of dodis dodi num, fact(num));
fact ( of you int n)
           Cont
                (n = = 0)
                 neturn (1);
else
                Heturn (n * fact (n-1));
         3
                      a * an-1, n > 0
      # indude < stdiooh>
        float power (float a, int n):
         main()
            float asp;
           printf ( "Enter a and n : ");
           Scan f ( se % f % d ", & a, &n);
             b=bower (ain);
            puent f ( of naised to the power of %d is tof In; as
            float power (float a int n)
                (n = = 0)
          else
             neturn (a* power (a, n+1));
```

0	1	1	2	3	5	8			
							+-,; t	1 1 × 1 × 1	

$$f(n) = \begin{cases} 1 & n = 0 \text{ on } n = 1 \\ f(n-1) + f(n-2), & n > 0 \end{cases}$$

lower of hand.	and the control of th
Source Tower Tempero	ry Destanation
+ bigger disk cannot be placed	
→ One disk can move at a time.	in mitter many of the many but in
ToH (n, source, temp, dest) =	
	prime No Delica
Move disk fro	m \$ +0 D , n=1
	or magazine in the total of the
ToH (n, s, D, T)	
	k. from s -> D
ToH (n-1, T, 5,	, D)
	disk from T-D
	. Lington ten
# indude (stdiooh)	for ast garages in set
ToH (int ndisk, char source, co	
E E	
if (ndisk)0)	gramme del element de la company
ToH (ndisk-1, source, dest, t	emps 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
prient & ( co Move desk 4 od 4 oc	
des+");	. Jakobsky v jely v jelok
ToH (ndisk-1, temp, source,	, dest);
3	
\$	
	et al Marrie Trib
char source = eso,	and religion to the second
Temp= cTo, Dest = cD;	or the second of the second of the
I'nt ndisk;	
Print f (ec Enter the noo of disk");	
U	